

Location ID	Attempt	Date	Sampling Coordinates				Penetration (feet)	Recovery (feet)	Within Excavation Boundary (Y/N)	Design Subgrade (feet MLW)	Sample Start (ft)	Sample End (ft)	Sample Interval		Elevation Start (ft MLW)	Elevation End (ft MLW)	Sample ID	Major Sediment Lithology	Sample Type				Tier 2 Testing Rationale	Proposed Tier 3 Testing Rationale	
			Easting	Northing	Longitude	Latitude							Below Surface (feet)	Elevation (ft MLW)					Full suite ^a	Suite ^b	Geotech ^c	Archive			Triggers
SC-01	4	3/26/2019	1267792	212838	122° 20' 34.9" W	47° 34' 24.5" N	1.5	1.4	93	Y	-4.1	0	1	0 to 1	0 to 1	0 to 1	T25-SC01A-0-1	Silt with sand, sand with RI, grading to gravel				No further testing because no tier core reached the Z layer. Nearby historical surface sediment and core data can be used for excavation material characterization.	Not applicable		
	5	3/26/2019	1267792	212871	122° 20' 34.9" W	47° 34' 24.5" N	2.0	2.0	100	N	NA	0	1	0 to 1	11.5 to 12.5	11.5	12.5	T25-SC01B-0-1	Silty sand with shell hash						X
												1	2	1 to 2	12.5 to 13.5	12.5	13.5	T25-SC01B-1-2	Shell hash and gravel						X
SC-02	2	3/25/2019	1267668	212812	122° 20' 36.0" W	47° 34' 24.2" N	7.5	7.0	93	Y	-7.3	0	4.6	0 to 4.6	-2.7 to -7.3	-2.7	-7.3	T25-SC-02-0-4.6 T25-SC-02-0-4.6 (FD)	—		X			The Excavation Suite ^b was analyzed in a 0 - 4.6 ft composite sample to characterize material that will be excavated for waste disposal (see IDW worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The full suite of analyses were conducted on the Z layer (4.6 - 5.6 feet). No further testing because the Z layer was tested and only one compound was slightly over the SMS SCD (conophthene at 18.8 mg/kg OC), as agreed to with EPA during the June 11, 2019 meeting.	Not applicable
												0	1	0 to 1	-2.7 to -3.7	-2.7	-3.7	T25-SC02-0-1	Shell hash, sand, and silt				X		
												1	2	1 to 2	-3.7 to -4.7	-3.7	-4.7	T25-SC02-1-2	Shell hash, sand, and silt				X		
												2	3	2 to 3	-4.7 to -5.7	-4.7	-5.7	T25-SC02-2-3	Silty sand				X		
												3	4.6	3 to 4.6	-5.7 to -7.3	-5.7	-7.3	T25-SC02-3-4.6	Silty sand to poorly graded sand				X		
												4.6	5.6	4.6 to 5.6	-7.3 to -8.3	-7.3	-8.3	T25-SC02-4.6-5.6	Poorly graded sand	X			X		
												5.6	7	5.6 to 7	-8.3 to -9.7	-8.3	-9.7	T25-SC02-5.6-7	Poorly graded sand				X		
SC-03	1	3/24/2019	1267651	212756	122° 20' 36.9" W	47° 34' 23.6" N	8.0	6.8	85	Y	-6.9	0	1.7	0 to 1.7	0.6 to 5.1	0.6	1.1	T25-SC03-0-5.1 ^d	Multiple intervals, reference core log	—	X ^d	—	—	The Excavation Suite ^b was analyzed in a 0 - 5.7 ft composite sample to characterize material that will be excavated for waste disposal (see IDW worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The core did not reach the Z layer and the deepest sample interval was tested, which was below SMS (T25-SC03-5.1-6.2). Upper most poorly graded sand interval will be tested for full suite of SMS analyses to refine vertical extent of contamination.	The next interval down will be tested for parameters that exceeded SMS screening leve
												1.7	2.7	0 to 1.7	0.6 to 1.1	0.6	1.1	T25-SC03-0-1.7	Very wet silt with sand	—	—	—	X		
												2.7	3.7	1.7 to 2.7	-1.1 to -2.1	-1.1	-2.1	T25-SC03-1.7-2.7	Sand with silt	—	—	X	X		
												3.7	4.7	2.7 to 4.7	-3.1 to -4.1	-3.1	-4.1	T25-SC03-2.7-4.7	Poorly graded sand	—	—	—	X		
												4.7	5.7	4.7 to 5.7	-4.1 to -5.1	-4.1	-5.1	T25-SC03-4.7-5.7	Poorly graded sand	—	—	—	X		
												5.7	6.2	5.7 to 6.2	-5.1 to -5.6	-5.1	-5.6	T25-SC03-5.7-6.2	Poorly graded sand	X ^d	—	—	X		
												0	1	0 to 4.0	-1.7 to -5.7	-1.7	-2.7	T25-SC04-0-4 ^d	Silt with sand, silty sand	—	X ^d	—	X		
SC-04	1	3/24/2019	1267598	212603	122° 20' 37.0" W	47° 34' 22.1" N	7.9	7.2	91	Y	-5.4	0 to 1	1.7 to 2.7	-1.7	-2.7	T25-SC04-0-1	Silt with sand	—	—	—	X	The Excavation Suite ^b was analyzed in a 0 - 4.0 ft composite sample to characterize material that will be excavated for waste disposal (see IDW worksheet for results). Testing of smaller intervals was not conducted because it will be removed during construction. The full suite of analyses were conducted on the Z layer (4.0 - 5.0 feet). The Z layer was tested and had SMS exceedances. The next interval down will be tested for the parameters that exceeded SMS screening levels (mercury, SVOCs (1,2,4-trichlorobenzene), PCBs, DPs, TS, TOC).	The next interval down will be tested for parameters that exceeded SMS sc		
												1	2	1 to 2	-2.7 to -3.7	-2.7	-3.7	T25-SC04-1-2	Silty sand	—	—			—	X
												2	3	2 to 3	-3.7 to -4.7	-3.7	-4.7	T25-SC04-2-3	Silty sand	—	—			X	X
												3	4	3 to 4	-4.7 to -5.7	-4.7	-5.7	T25-SC04-3-4	Silty sand	—	—			—	X
												4	5	4 to 5	-5.7 to -6.7	-5.7	-6.7	T25-SC04-4-5	Poorly graded sand	X	—			—	X
												5	6	5 to 6	-6.7 to -7.7	-6.7	-7.7	T25-SC04-5-6	Poorly graded sand	—	—			X	X
												6	6.7	6 to 6.7	-7.7 to -8.4	-7.7	-8.4	T25-SC04-6-6.7	Silt with decomposed organics	—	—			—	X
SC-05	3	3/26/2019	1267419	212412	122° 20' 40.1" W	47° 34' 20.2" N	2.0	2.0	100	Y	-10.9	0	1	0 to 1	-13 to -14	-13	-14	T25-SC05-0-1	Silty sand	X	—	—	X	The elevation of this core was deeper than the design subgrade; however for RI characterization purposes, the next interval down will be tested for the parameters that exceeded SMS screening levels (PCBs, TS, TOC).	No more sample due to difficulty coring at this location. Refusal was hit at
												1	2	1 to 2	-14 to -15	-14	-15	T25-SC05-1-2	Silty sand and sand	—	—	—	X		
SC-06	1	3/26/2019	1267526	212510	122° 20' 38.0" W	47° 34' 21.3" N	4.0	3.4	85	Y	-7.7	0	1	0 to 1	-6 to -7	-6	-7	T25-SC06-0-1	Silty sand	X	—	—	—	This core was just inside the excavation boundary. The sample interval that contains the Z layer (-7.7 feet MLW) will be tested for the parameters that exceeded SMS screening levels in the 0-1 ft interval (SVOCs (BOP, chrysene), PCBs, DPs, TS, TOC).	The next interval down will be tested for parameters that exceeded SMS screen
												1	1.5	1 to 1.5	-7 to -7.5	-7	-7.5	T25-SC06-1-1.5	Poorly graded sand	—	—	—	X		
												1.5	2.5	1.5 to 2.5	-7.5 to -8.5	-7.5	-8.5	T25-SC06-1.5-2.5	Organics (wood fibers)	—	—	—	X		
SC-07	1	3/25/2019	1267572	212704	122° 20' 38.0" W	47° 34' 23.1" N	9.5	7.4	78	N	NA	0	1	0 to 1	21 to 22	21	22	T25-SC07-0-1 T25-SC07-0-1 (FD)	Silt	X	—	—	—	This core is outside the excavation boundary and was collected for RI characterization. Anthropogenic debris was found at 3.5 ft, so the first sample in the next lithologic layer, T25-SC07-5-6, was selected for testing. Testing will include the parameters that exceeded SMS screening levels in the 0-1 ft interval (PCBs, DPs, TS, TOC). Added Note based on EPA feedback, because concentrations of PCBs and DPs were higher in the subsurface interval.	The next interval down will be tested for parameters that exceeded SMS screening levels (mercury, SVOCs, PAHs, PCBs, DPs, TS, TOC). Shallower interval
												1	2	1 to 2	22 to 23	22	23	T25-SC07-1-2	Silt	—	—	X	X		
												2	3	2 to 3	23 to 24	23	24	T25-SC07-2-3	Silt	—	—	—	X		
												3	4	3 to 4	24 to 25	24	25	T25-SC07-3-4	Silt	—	—	—	X		
												4	5	4 to 5	25 to 26	25	26	T25-SC07-4-5	Silt	—	—	—	X		
												5	6	5 to 6	26 to 27	26	27	T25-SC07-5-6	Silt with decomposed organics	—	—	—	X		
												6	7	6 to 7	27 to 28	27	28	T25-SC07-6-7	Silt with decomposed organics	—	—	—	X		

SC-08	1	3/25/2019	1267625	212882	122° 20' 37.3" W	47° 34' 24.9" N	12.0	10.6	88	N	NA	0	1	0 to 1	-22.5 to -23.5	-22.5	-23.5	725-SC08-0-1	SHR	X	--	--	--				
												1	2	1 to 2	-23.5 to -24.5	-23.5	-24.5	725-SC08-1-2	SHR	--	--	--	X				
												2	3	2 to 3	-24.5 to -25.5	-24.5	-25.5	725-SC08-2-3	SHR	--	--	--	X				
												3	4	3 to 4	-25.5 to -26.5	-25.5	-26.5	725-SC08-3-4	SHR	--	--	--	X				
												4	5	4 to 5	-26.5 to -27.5	-26.5	-27.5	725-SC08-4-5	SHR	--	--	--	X				
												5	6	5 to 6	-27.5 to -28.5	-27.5	-28.5	725-SC08-5-6	SHR	--	--	--	X				
												6	7	6 to 7	-28.5 to -29.5	-28.5	-29.5	725-SC08-6-7	SHR	--	--	--	X				
												7	8	7 to 8	-29.5 to -30.5	-29.5	-30.5	725-SC08-7-8	SHR	--	--	--	X	K			
												8	9	8 to 9	-30.5 to -31.5	-30.5	-31.5	725-SC08-8-9	SHR	--	--	--	X	D			
												9	10	9 to 10	-31.5 to -32.5	-31.5	-32.5	725-SC08-9-10	SHR	--	--	--	X				
SC-01	5 ^f	3/24/2019	1267739	212889	122° 20' 35.0" W	47° 34' 25.1" N	2.7	1.5	56	N	NA	0	1	0 to 1	-30.9 to -31.9	-30.9	-31.9	725-SC09-0-1	SHR	--	--	--	X				
												1	1.5	1 to 1.5	-31.9 to -32.4	-31.9	-32.4	725-SC09-1-1.5	SHR	--	--	--	X				
												2	3	2 to 3	-15.8 to -16.8	-15.8	-16.8	725-SC09B-2-3 (ED)	SHR	--	--	--	X	K			
												3	4	3 to 4	-16.8 to -17.8	-16.8	-17.8	725-SC09B-3-4	SHR	--	--	--	X	D			
												0	1	0 to 1	-13.8 to -14.8	-13.8	-14.8	725-SC09B-0-1	SHR	X	--	--	--				
												This core is outside the excavation boundary and was collected for RI characterization. The entire core is silt, and hydrocarbon-like odor was observed at 6 ft. The first interval below the odor, 725-SC08-7-8, was selected for testing. Testing will include the parameters that exceeded SMS screening levels in the 0-1 ft interval (mercury, SVOCs [PAHs], PCBs, Df ₁ , TS, TOC).											The next interval down will be tested for parameters that exceeded SMS screening levels (SVOCs, PAHs, PCBs, Df ₁ , TS, TOC). Shallower intervals will				
												This core is outside the excavation boundary and was collected for RI characterization. The entire core is silt. Because of the similar lithology, 725-SC09-2-3, was selected for testing. Testing will include the parameters that exceeded SMS screening levels in the 0-1 ft interval (mercury, SVOCs [PAHs], Df ₁ , TS, TOC).											The next interval down will be tested for parameters that exceeded SMS screening levels (mercury, PAHs, TS, TOC).				

Notes:
K = Triggered on July 2015
D = Proposed Pier 3 Trigger
a. Dioxins; TC; TOC; metals; SVOCs; PAHs; Total PCBs; Aerosols; and Biotinylurans
b. TC; metals; SVOCs; PAHs; PCBs; and TS
c. Grain size, ash/abing limits, moisture content, and specific gravity
d. Lab-generated composite using equal amount of sediment from individual interval analyses
e. insufficient volume for grain size analysis
f. The 5th attempt at location SC-01 was accepted on 3/24/2019 with 34% recovery and samples were analyzed. An additional 10th attempt was made on 3/26/2019 with improved recovered depth and percent recovery, which replaced the original samples collected.
NA=Not tested for water
PAH: polycyclic aromatic hydrocarbon
PCB: polychlorinated biphenyl
SVOC: semi-volatile organic carbon
TOC: total organic carbon
TS: total solids

Cell: R19
Comment: [Threaded comment]

Your version of Excel allows you to read this threaded comment; however, any edits to it will get removed if the file is opened in a newer version of Excel. Learn more: <https://go.microsoft.com/fwlink/?linkid=870924>

Comment:
not fitting design deviation at deepest interval

Cell: Q24
Comment: [Threaded comment]

Your version of Excel allows you to read this threaded comment; however, any edits to it will get removed if the file is opened in a newer version of Excel. Learn more: <https://go.microsoft.com/fwlink/?linkid=870924>

Comment:
This interval has design subgrade
Reply:
I think we should do the next interval.

Cell: Q29
Comment: [Threaded comment]

Your version of Excel allows you to read this threaded comment; however, any edits to it will get removed if the file is opened in a newer version of Excel. Learn more: <https://go.microsoft.com/fwlink/?linkid=870924>

Comment:
shallowest sample is below subgrade? speaks to poor bathy or changes since last survey

Tier 2

Elevation Start (ft MLLW)	Elevation End (ft MLLW)	Sample ID	Sample Archive Testing Parameters
-3.1	-4.1	T25-SC03-3.7-4.7	Metals, mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
-6.7	-7.7	T25-SC04-5-6	Mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
-14	-15	T25-SC05-1-2	PCBs, TS, TOC.
-7.5	-8.5	T25-SC06-1.5-2.5	SMS SVOCs, PCBs, DFs, TS, TOC.
-26	-27	T25-SC07-5-6	PCBs, DFs, TS, TOC.
-29.5	-30.5	T25-SC08-7-8	SMS SVOCs, PCBs, DFs, TS, TOC.
-15.8	-16.8	T25-SC09B-2-3	Mercury, SMS SVOCs, DFs, TS, TOC.
		T25-SB03-14.2-16.2	PCBs, TS

Tier 3

Sample ID	Sample Archive Testing Parameters
T25-SC03-4.7-5.7	SMS SVOCs, PCBs,TS, TOC.
T25-SC04-6-6.7	PAHs, PCBs, DFs, TS, TOC.
T25-SC06-2.5-3.3	SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC07-5-6	PAHs
T25-SC07-6-7	Mercury, SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC08-8-9	SMS SVOCs, PCBs, DFs, TS, TOC.
T25-SC09B-3-4	Mercury, PAHs, PCBs, TS, TOC.

*Use tests allowed in the Master Service Agreement

**Invoice line items have to match the MSA